Nine Projects, One Codebase A Static Search Engine for Digital Editions

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Project Endings

https://endings.uvic.ca/

Project Endings

- Static Websites
 - No server side dependencies
 - Strictly XHTML5 + CSS + Vanilla JS
 - Best chance for preservation 50 years + (we hope)

Endings Projects

- Robert Graves Diary (graves.uvic.ca)
- Map of Early Modern London (mapoflondon.uvic.ca)
- The Winnifred Eaton Archive (winnifredeatonarchive.org)
- Mapping Keats's Progress (johnkeats.uvic.ca)
- My Norse Digital Image Repository (myndir.uvic.ca)
- Le mariage sous L'Ancien Régime (mariage.uvic.ca)
- Digital Victorian Periodical Poetry (dvpp.uvic.ca)
- Landscapes of Injustice (loi.uvic.ca)
- Linked Early Modern Drama Online (lemdo.uvic.ca)

 All of these projects required robust searching mechanisms, including:

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 - Keyword search

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 - Wildcard search

- All of these projects required robust searching mechanisms, including:
 - Keyword search
 - Exact phrase search
 - Wildcard search
 - Filtered search (by date, by author, +++)

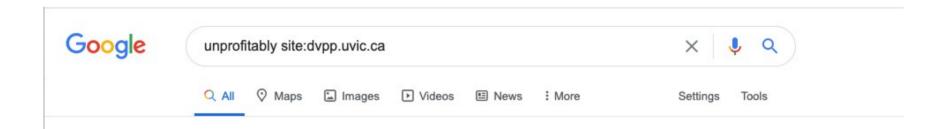


Google Search

ENHANCED BY Google

G

Not particularly reliable

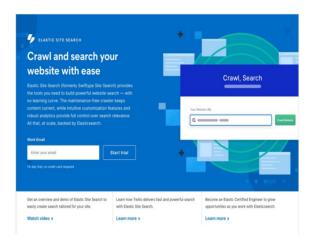


Your search - unprofitably site:dvpp.uvic.ca - did not match any documents.

Suggestions:

- · Make sure that all words are spelled correctly.
- · Try different keywords.
- · Try more general keywords.
- · Try fewer keywords.

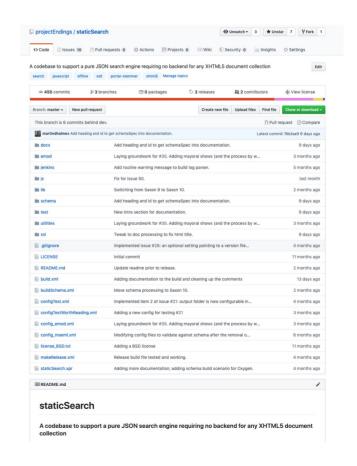




- Not particularly reliable
- External dependency = technical debt

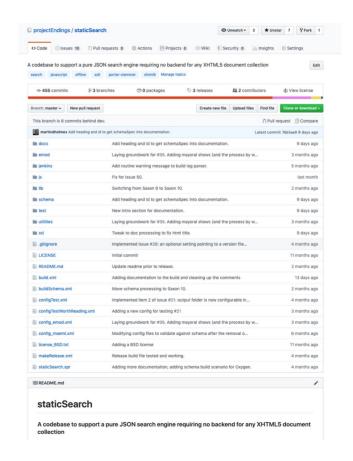
- Not particularly reliable
- External dependency = technical debt
- Too many documents to put in one index

So we built our own



So we built our own

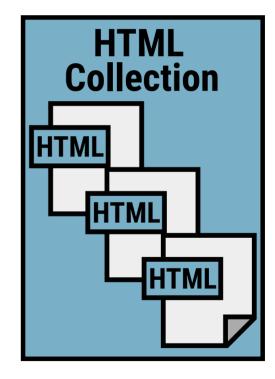
https://github.com/projectEndings/staticSearch

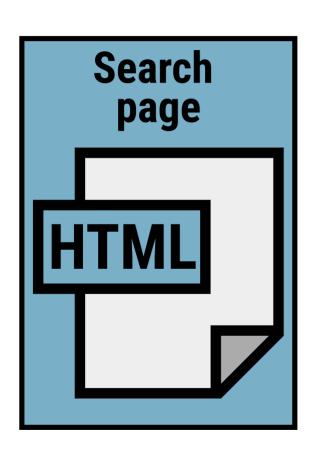


How it works

You have:

- A collection of HTML files
- All well-formed & valid XHTML





You add:

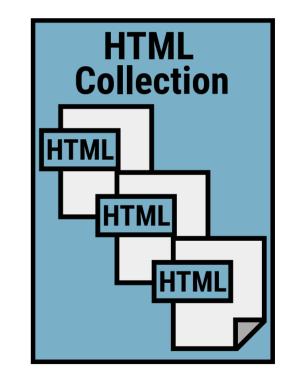
 An HTML search page containing a special div:

<div id="staticSearch"></div>

You add:

 Some metadata elements to support search filters:

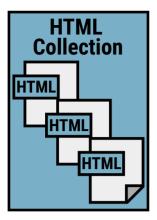
<meta name="Document type" class="staticSearch.desc" content="Poems" />



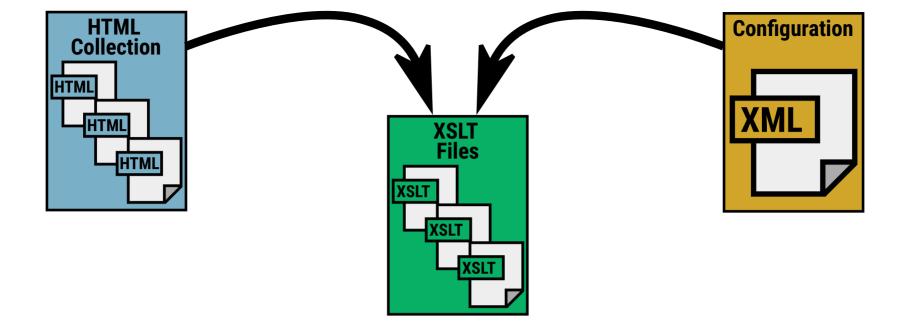
You create:

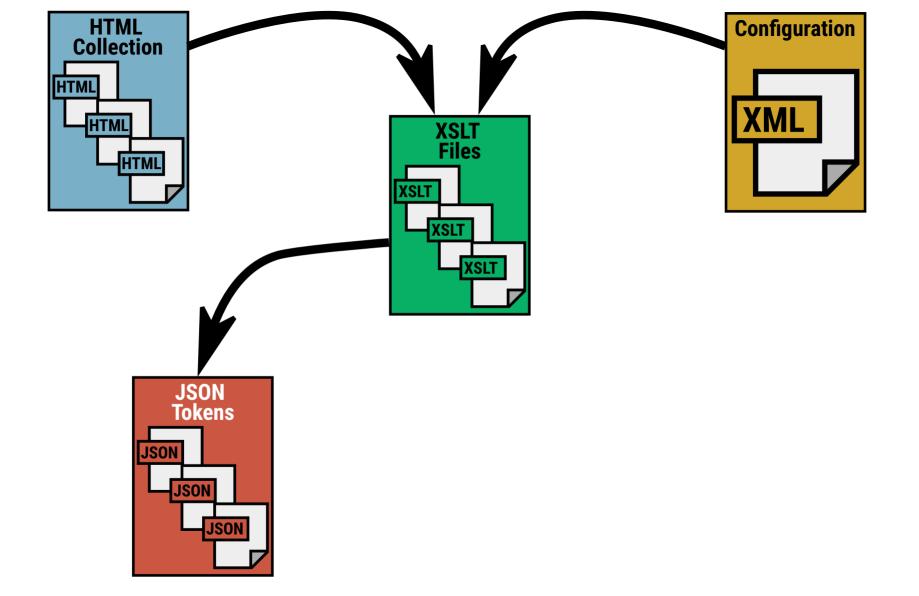


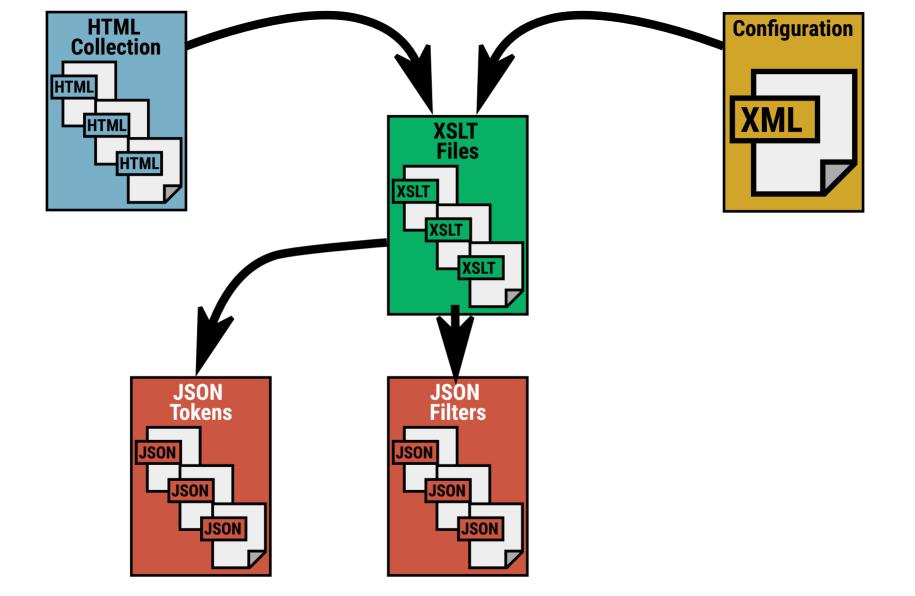
 A configuration file (XML) to specify the features and constraints for your search engine

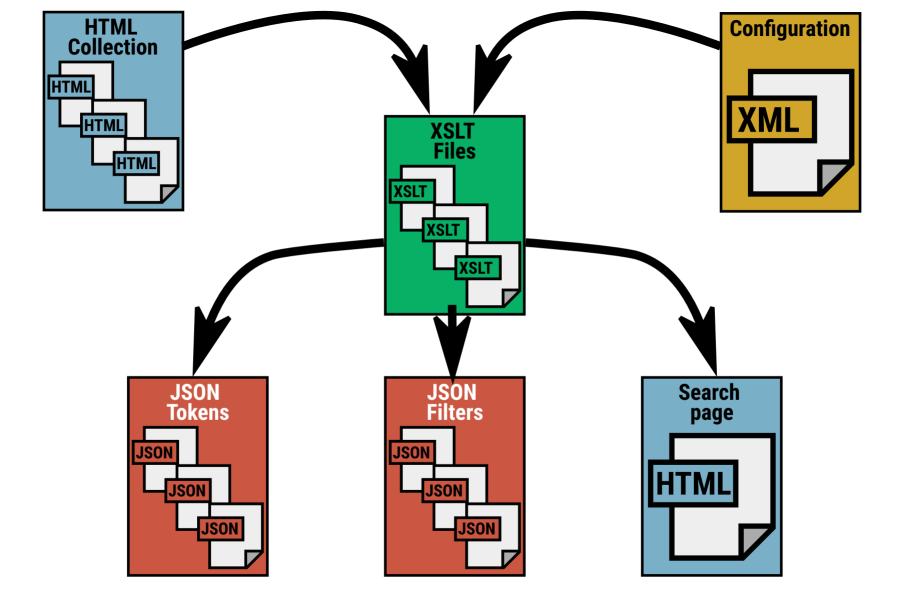












JSON token file

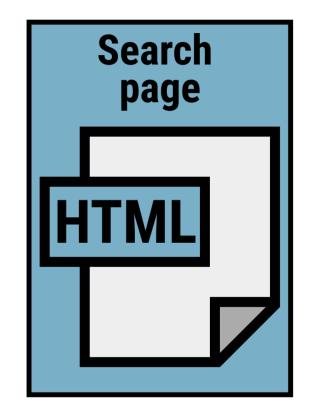
```
{"token": "unprofit",
 "instances": [
   "docld": "pom 2025 ithe old man of hoy",
   "docUri": "poems/goodwords/1870/pom 2025 ithe old man of hoy.html",
   "score": 1.
   "contexts": [
      "form": "unprofitably",
      "context": "...whole that day was spent <mark>unprofitably<\/mark>.",
      "weight": 1,
      "pos": 400
   "docld": "pom 8733 john and joan canto ii",
   "docUri": "poems/blackwoods/1820/pom 8733 john and joan canto ii.html",
   "score": 1.
   "contexts": [
      "form": "unprofitable",
      "context": "...too much ap- propriated unto <mark>unprofitable<Vmark> jocularities and facetiousness. Craving licence....",
      "weight": 1,
      "pos": 164
```

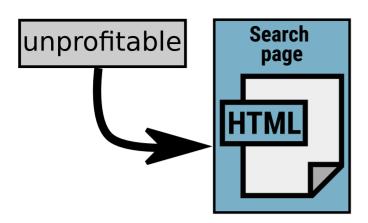
Filter JSON

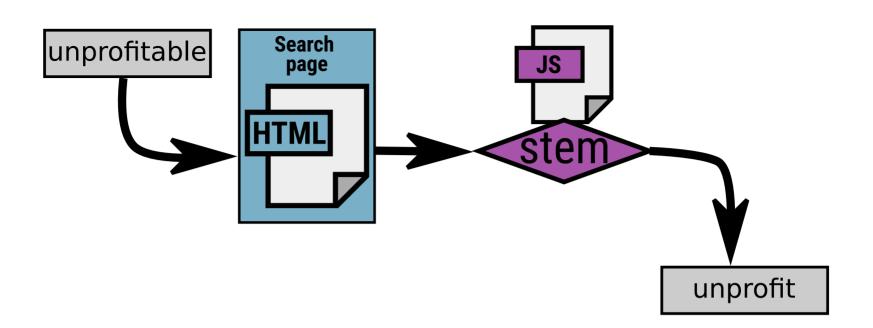
```
"filterId": "ssBool2",
"filterName": "Unsigned",
"ssBool2 1": {
 "value": "true",
 "docs": [
  "poems/chambers series/1867/pom 7594 the husbands request.html",
  "poems/alltheyearround/1875/pom 4271 the hourglass.html",
  "poems/alltheyearround/1879/pom 4507 in the conservatory.html",
  "poems/blackwoods/1843/pom 9963 jolly father joe.html",
  "poems/blackwoods/1829/pom 10314 the watchmans lament.html"
```

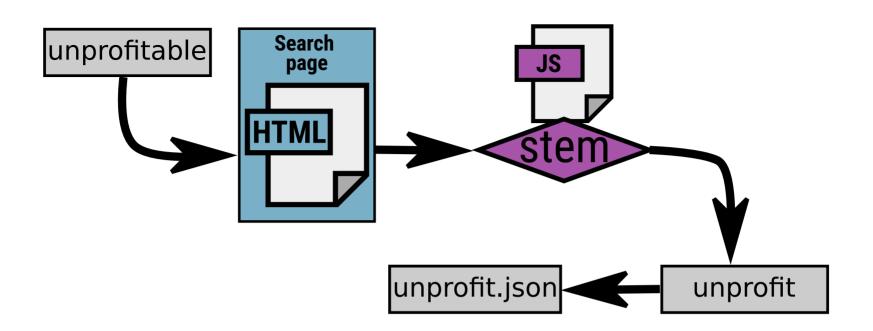
On the website...

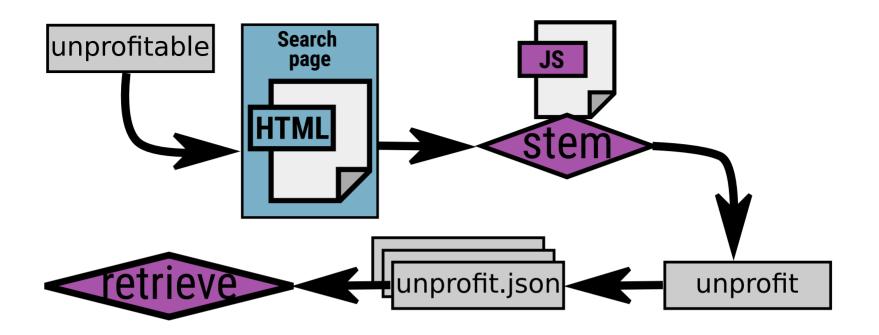
- ...of the thousands of JSON files...
- ...the search page JS retrieves only the ones it needs for the search you do:

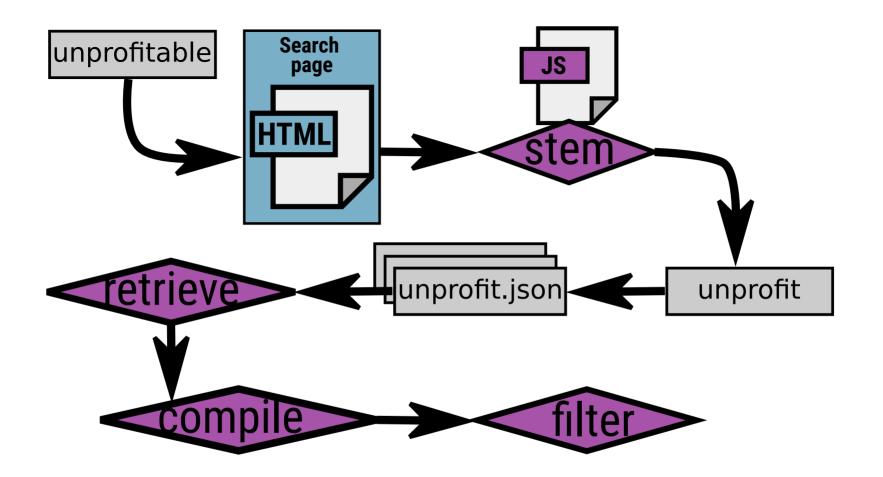


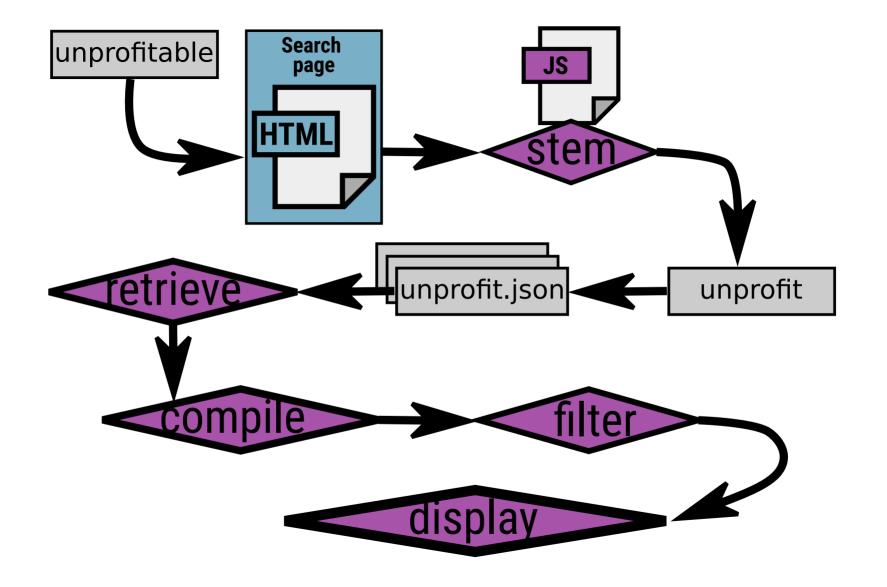












Documents found: 2

I.—The Old Man of Hoy Score: 1

• ...whole that day was spent unprofitably.

John and Joan, Canto II Score: 1

 ...too much ap- propriated unto unprofitable jocularities and facetiousness. Craving licence,...

Endings Projects = live with staticSearch

- My Norse Digital Image Repository (myndir.uvic.ca)
- Map of Early Modern London (mapoflondon.uvic.ca)
- The Winnifred Eaton Archive (winnifredeatonarchive.org)
- Mapping Keats's Progress (johnkeats.uvic.ca)
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Demonstration applications

- https://johnkeats.uvic.ca/search.html
- https://winnifredeatonarchive.org/search.html
- https://dvpp.uvic.ca/search.html

Mappings Keats's Progress



If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents. You can also try a Google Search.

	A	Search
Clear		
Search in		
☐ Other pages ☐ Poems ☐ Timeline chapters ☐ Yearly chronology pages		
Date range		
From: 1794-01-01		
To : 1821-12-31		
Search		

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If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents. You can also try a Google Search.

	_	Υ
walking	±	Search
Clear		
Search in		
☐ Other pages ☐ Poems ☐ Timeline chapters ☐ Yearly chronology pages		
Date range		
From: 1794-01-01		
To: 1821-12-31		
Search		
Documents found: 82		
11 April 1819: Two Miles & a Thousand Things: A Walking Talk by Coleridge Score: 9 o& a Thousand Things: A Walking Talk by Coleridge		
 Where, on a walk toward Highgate in a 		
 at the time, and is walking with someone Keats knew 		
 character and sprawling brilliance: I walked with him at his 		
 some of this on his walk with Coleridge. (Click image 		
 & a Thousand Things: A Walking Talk by Coleridge ." 		
 & a Thousand Things: A Walking Talk by Coleridge ," 		
 & a Thousand Things: A Walking Talk by Coleridge 		
00 O + 1 - 1010 W H ' - W'-l W - P' - M' - I ' - I ' - I ' - I ' - I ' - I - I	TT - 11	

- 22 October 1818: Walking With Hazlitt, Thinking Like Hazlitt, Not Playing Racquets Like Hazlitt Score: 6
 - 22 October 1818: Walking With Hazlitt, Thinking Like...
 - o Where Keats walks with William Hazlitt the

If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents. You can also try a Google Search.

'walking"		Search
Clear	_	
Search in		
\Box Other pages \Box Poems \Box Timeline chapters \Box Yearly chronology pages		
Date range		
From: 1794-01-01		
To: 1821-12-31		
Search		
Occuments found: 49		
11 April 1819: Two Miles & a Thousand Things: A Walking Talk by Coleridge Score: 5 o& a Thousand Things: A Walking Talk by Coleridge		
 at the time, and is walking with someone Keats knew 		
 & a Thousand Things: A Walking Talk by Coleridge ." 		
∘& a Thousand Things: A Walking Talk by Coleridge ,"		
o& a Thousand Things: A Walking Talk by Coleridge ."		
22 October 1818: Walking With Hazlitt, Thinking Like Hazlitt, Not Playing Racquets Like Hazl • 22 October 1818: Walking With Hazlitt, Thinking Like	litt S	Score: 4
 G. Kim. "22 October 1818: Walking With Hazlitt, Thinking Like 		
 Kim Blank, "22 October 1818: Walking With Hazlitt, Thinking Like 		
oG. Kim. "22 October 1818: Walking With Hazlitt, Thinking Like		
People mentioned Score: 4 oKeats, most famously on their walking tour in the summer		
by the Romantics; Keats's northern walking tour with Charles Brown		

If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents. You can also try a Google Search.

"walking"	±	Search
Clear		
Search in		
☐ Other pages		
Date range		
From: 1794-01-01		
To: 1821-12-31		
Search		
Documents found: 2		
Endymion: A Poetic Romance BOOK III Score: 1 • He spake, and walking to that aged form,		
I stood tip-toe upon a little hill Score: 1 • Walking upon the white clouds		

If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents. You can also try a Google Search.

"walking"	À	Search
Clear		
Search in		
☐ Other pages ☐ Poems ☐ Timeline chapters ☐ Yearly chronology pages		
Date range		
From: 1820		
To: 1821-12-31		
Search		
Documents found: 1		

23 June 1820: Keats Coming Full Circle: Under Hunt's Care Score: 1

o ...set off by an exhausting walking tour, August 1818, which...

The Winnifred Eaton Archive

SEARCH FILTERS garden -Japan -Japanese Q Filter Clear PUBLICATION DATE > ▶ Instructions GENRE > Sort by Relevance (Highest to Lowest) > PSEUDONYM > Documents found: 3 Marion (Part 1) DOCUMENT TYPE > ▶ More Info ☐ Born Digital document ☐ Listing Pages Next to our garden, separated only by a wooden fence, through... Primary Source: Manuscripts ...used to peep, was the opulent and well-kept garden of Monsieur Prefontaine, who was a very... Primary Source: Published We had an old, straggly garden. Everything about it looked "seedy" and uncared... EXHIBIT > ...and wild, for we could not afford a gardener. My sisters and I found small consolation... ...natural wild state. I was sensitive about that garden. It was awfully poor looking, in comparison... ...said it. Being just next to the fine garden of Monsieur Prefontaine, it appeared the more... ...it appeared the more ragged and beggarly, that garden of ours. ...big, luscious berries I knew were in the garden of Monsieur Prefontaine. ...I kept thinking of the berries in the garden adjoining, and the more I thought of... It was very quiet in our garden. Not a sound was anywhere, except the... +1



Plain Pig

▶ More Info

...route through the kitchen, and out through the garden and the barnyard to the corral, where...

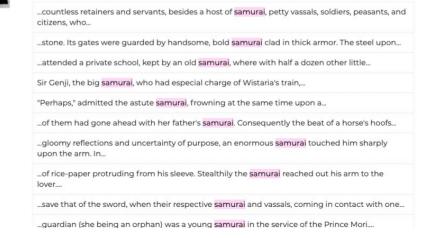
SEARCH FILTERS fus[au]ma Q Filter Clear PUBLICATION DATE > ▶ Instructions From: 1900 Sort by Relevance (Highest to Lowest) ♥ To: 1901 Documents found: 2 Kirishima-san GENRE > ▼ More Info GENRE EXHIBIT PSEUDONYM > Playing Japanese 1896-1922 Short Story DOCUMENT TYPE PSEUDONYM DOCUMENT TYPE ✓ Primary Source: Published Onoto Watanna ☐ Born Digital PUBLICATION DATE document November 1901 ☐ Listing Pages ✓ Primary Source: Manuscripts ...floor in the next room. Jack pushed the fusuma aside. Kirishima was kneeling on the ground,... ✓ Primary Source: Published ...making some remark about the oddity of the fusuma, but Jack was persistent in a dogged... EXHIBIT > The Old Jinrikisha (Part 5) ▼ More Info GENRE DOCUMENT TYPE Novel: Serial Primary Source: Published **EXHIBIT** PSEUDONYM Playing Japanese 1896-1922 Onoto Watanna PUBLICATION DATE June 1900

...short, and stared with fascinated eyes toward the fusama which was slowly sliding apart.

RESOURCES

Q





PUBLICATION DATE

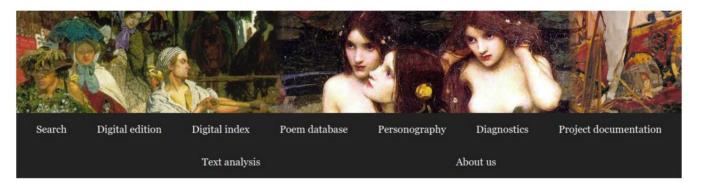
Q

Digital Victorian Periodical Poetry

- Multiple search pages/indexes
- Different purposes
- Different configurations and filters

DIGITAL VICTORIAN PERIODICAL POETRY

"much to do with victorian poetry"



Search this site | Search for people | Search figures | Search poem notes

Search for poems based on their figures and illustrations.

If you're searching for proper nouns, capitalize the first letter; otherwise use lower-case. You can search for a quoted phrase, or use plus and minus signs to specify that a term must or must not appear in the result documents.

Illustration type and placement		
Illustration type and placement		
inustration type and piacement		
Caption to illustration is illustrated Decorated or illustrated capital letter Enlarged initial contains a human or animal figure Enlarged initial that contains an illustration Illustrated (decorated) border Illustration above		
	Caption to illustration is illustrated Decorated or illustrated capital letter Enlarged initial contains a human or animal figure Enlarged initial that contains an illustration Illustrated (decorated) border	Caption to illustration is illustrated Decorated or illustrated capital letter Enlarged initial contains a human or animal figure Enlarged initial that contains an illustration Illustrated (decorated) border

Other features

Pluggable stemmers (currently we have only Modern English and the "identity" stemmer).

Next steps

- A Modern French stemmer
- Enhanced English and French stemmers for Early Modern texts
- Option to strip diacritics before stemming

Dev time amortization

- 1 year of work
- 2 contributors, 2 institutions
- Approx 11,000 lines of code
- Nine projects supported and counting
- Value-for-money increases with every project

Takeaways

- A DH Centre like HCMC massively multiplies the value of developer time
- Developer collaborations between institutions add more value
- Minimize custom project code, maximize reusable code

Resources

- Get the code: https://github.com/projectEndings/staticSearch
- Read the documentation: https://endings.uvic.ca/staticSearch/docs/

Thanks!

- HCMC, University of Victoria
- DHIL, Simon Fraser University
- Social Sciences and Humanities Research Council